

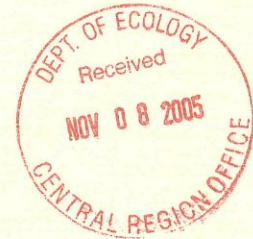
FILE: PROGRESSIVE FLAT EMERGENCY  
DROUGHT PER  
CLA-GWC3838-A@1



**Gray & Osborne, Inc.**

CONSULTING ENGINEERS

November 7, 2005



Mr. Robert Barwin, Section Leader  
Department of Ecology, Water Resources Program  
Central Region Office  
15 W. Yakima Avenue, Suite 200  
Yakima, WA 98902-3452

SUBJECT: PROGRESSIVE FLATS WATER ASSOCIATION - DROUGHT  
SUPPORT  
CITY OF OKANOGAN, OKANOGAN COUNTY, WASHINGTON  
G&O 05043.00

Dear Mr. Barwin:

On behalf of our client, Progressive Flats Water Association (PFWA), we are providing the supporting information that they have been significantly impacted by the drought conditions that has impact our state the past few years. PFWA has made an official request for funding from the Governor's Emergency Drought Funds and it is our understanding that the association qualifies for the funds, but that the program requires documented proof of the drought impacts.

As you may be aware, PFWA gets its domestic water from a shallow 65 foot deep cased well that has sanded in to 43 feet. From the well's operation since 1960 it has been determined that the low or critical level is at 28 feet from top of well. In June of 2004, the association sent out a "Drinking Water Warning" that identified to the constituents of the association that water levels in the well had dropped and the well could not keep up with water use demands. The warning further stipulated that the pump would only be operated daily between 5:00 am to 9:00 am and again from 5:00 pm to 9:00 pm.

On July 3, 2004 the association sent out its annual Consumer Confidence Report which identified that some leakage in the distribution system had been repaired, but that there was still a concern about the limitation of well production. During the month of September 2004 water levels in the well ranged between 23 and 34 feet with the average being closer to 26 to 28 feet below the top of the well. Again, in October 2004 the well was observed to have significant fluctuations in water level, ranging from 25 feet to 38 feet from the top of well. Although another leak was found in the system, repairs of that leak did not have a substantial impact on reducing the drop in water levels in the well.

Through the remainder of 2004 and through fleeting months of 2005, the continued but restricted system use has resulted in significant fluctuations in the well water levels. We believe these fluctuations show direct correlation between the drought conditions in the Okanogan Valley and the inability of the aquifer to stabilize and keep up with system demands.





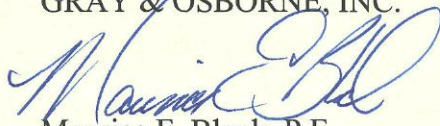
Mr. Robert Barwin, Section Leader  
November 7, 2005  
Page 2

The purpose of soliciting the funds is to develop a new source of water. At this point, which is early in the study phase it would appear that the new source of water would be a connection to the City of Okanogan domestic water system. In this possible scenario, PFWA would transfer its water right and point of diversion to the City of Okanogan in exchange for the connection. This connection would provide the association with a very reliable flow in volume, pressure, and quality. All service connections would be metered and monitored, although at this point in time it has not been determined if the PFWA would be a whole sale customer and continue operation and maintenance of the association's system or if it would contract with the city of Okanogan to operate and maintain the system.

If there are any questions or comments regarding this letter or enclosed information, please feel free to contact the undersigned or Mr. Bob Blank at (509) 422-5170.

Very truly yours,

GRAY & OSBORNE, INC.



Maurice E. Block, P.E.

MEB/gad

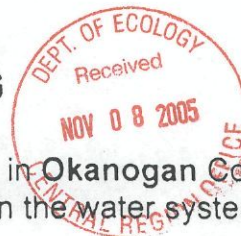
Encl.

cc: Mr. Bob Blank, PFWA Secretary  
Mr. Tom Justus, Department of Health  
Mr. Joe Mitschelen, Rural Community Assistance Corporation  
Mr. Ray Clements, PWS City of Okanogan



6/24/04

## DRINKING WATER WARNING



The **Progressive Flat Water Users** Water System, ID# **69650U**, located in **Okanogan** County may be contaminated because of water outages and loss of pressure in the water system.

**DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring all water to a boil, let it boil 3 – 5 minutes, and let it cool before using. Boiled or purchased bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and food preparation until *further notice*. Boiling kills bacteria and other organisms in the water.

*When a loss of pressure occurs, it is possible that contamination from the environment or from human or animal waste may be drawn into the water system. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems. These symptoms are not only caused by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care provider.*

### What happened?

- Water levels in the well dropped and we are not able to keep up with the demand needed to operate under normal conditions.
- Until further notice, the well pump will be operating only during the following hours daily: 5:00 a.m. to 9:00 a.m. and 5:00 p.m. to 9:00 p.m.
- We are asking for your cooperation in conserving water until the situation is resolved.

### The following is being done:

- Evergreen Rural Water of Washington is assisting us to detect leaks in the system. A number of leaks have been found and are being repaired.
- We will continue to monitor the fluctuating water levels in the well to determine the extent of the problem.
- We will be making a decision based on our findings for corrective action.

### What should consumers do?

- Boil your tap water intended for human consumptive purposes (i.e. drinking, cooking, food preparation, ice making, oral hygiene) at a rolling boil for 3 to 5 minutes.
- Conserve water until the situation is resolved

For more information, please contact W. Wayne D. Ruffin at (509) 422-1968 or at  
(owner or operator) (phone number)  
7 N. Hardy Road Okanogan (address). a ph. 509-322-5510

*Please share this notice with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distribution copies by hand or mail.*

This notice is sent to you by PROGRESSIVE FLAT Water System on 6/24/04



7/3/04

TO THE PROGRESSIVE FLAT WATER ASSOCIATION


Each year before July 1, we are required to make a CONSUMER CONFIDENCE REPORT. As you all know this past year wasn't pretty.

We had the following problems:

- (1) Replaced leaky pressure tank, June 2003. Installed new roof on pump house.
- (2) Coliform outbreak due to drilling a well in September 2003. This resulted in chlorination of the water system. Starting the first of the year, 2004; we have had no coliforms from the well. June 8-10, we flushed lines as a step of getting off chlorination. This was 99 to 99.5% effective. June 20-2004, Tom Justus of the Department of Health- eastern office told me to go off chlorine. June 28, we were going to take a chlorine free sample. If this tested good we would go off chlorination.
- (3) June 22, pumped well dry due to excessive water usage. We found leaks of around fifty-seven gallons a minute over and above normal usage. For two to three days, we had intermittent water available as we trouble shot the water system. June 24, due to the intermittent service; we, as a precaution, were required to start the chlorinator. Presently, we are pumping eighteen gallons a minute and holding system pressure of 80 p.s.i.. Well height is twenty four to twenty six feet from top of well. After all the repairs are done and we keep the system pressurized; we can try again to get off chlorination. AGAIN, I must ask for all to conserve water. I can tell you if we drop to fifteen gallons a minute; I won't be able to hold system pressure. WE WILL BE ON CHLORINATION if this occurs.

ON a positive note, your board and operator are working hard to solve our problems.

Wayne Dezellem



Water operator





STATE OF WASHINGTON  
DEPARTMENT OF HEALTH

1500 West 4th Avenue, Suite 305 • Spokane, Washington 99204

FAX: (509) 456-2997

September 10, 2004

WAYNE DEZELLEM  
PROGRESSIVE FLAT WATER ASSN  
7 CHERRY LANE RD  
OKANOGAN WA 98840

Subject: Progressive Flat Water Assn Water System, ID# 69650U, Okanogan County,  
Precautionary Boil Water Advisory Issued - September 2004

Dear Wayne Dezellem,

Your water system has the potential to create a cross connection control problems due to low production at your well (S01). This is a high public health risk and it is very important to address immediately.

As a result of this situation, you are required to do the following:

- Notify users within **24 hours** to **boil water**. Please use the enclosed sample "Drinking Water Warning" as a model for your notification form and content. The Department of Health (DOH) must approve any changes or modifications to the content of this form before it is distributed.
- Consult with DOH regarding your plans to distribute the Drinking Water Warning notice. DOH will also explain what additional water samples are required to be collected.
- Send DOH a copy of your Drinking Water Warning notice and a copy of the completed "certification form *within ten days* after the notice is distributed.
- Consult with DOH prior to lifting the Drinking Water Warning.
- Turn on your chlorinator immediately and maintain a chlorine residual of at least 0.5ppm in the distribution system at all times.

Please contact me if you need clarification or additional information.

Sincerely,

Mark Steward  
Environmental Specialist  
(509) 456-2731  
mark.steward@doh.wa.gov

Enclosures

cc:

Okanogan County Health District  
Tom Justus, Regional Engineer  
Pat McCaffery, Coliform Program  
Scott Torpie, Assistant Regional Manager  
Andy Cervantes, Regional Engineer

Public Health - Always Working for a Safer and Healthier Washington







STATE OF WASHINGTON  
DEPARTMENT OF HEALTH  
1500 West 4th Avenue, Suite 305 • Spokane, Washington 99204  
FAX: (509) 456-2997



November 4, 2005

Robert Barwin  
Department of Ecology  
15 West Yakima Ave., Suite 200  
Yakima WA 98902-3452

Dear Mr. Barwin:

Subject: Progressive Flats Water Association; Change Application No. CG4-GWC3838-A@1

This letter requests the Department of Ecology's assistance and expedited action in the processing of an emergency water right change application for the Progressive Flats Water Association. The Association serves 48 households at this time in a rural area close to the City of Okanogan in Okanogan County. The source of supply for Progressive Flats is presently suffering from severe quantity issues and high Uranium content.

As a condition for the Drought Assistance Grant from DOE, Progressive Flats must transfer their water rights to the City of Okanogan in order to use Okanogan as their new source. USDA-Rural Development and the Department of Ecology are supplying grant funds to help with this issue of a failed water supply in Progressive Flats. The proposed change application will transfer the existing groundwater rights to Well #3 for the City of Okanogan.

The loss of capacity in the source of supply for the Progressive Flats water system is a critical public health issue and severely impacts their ability to provide a safe and reliable supply of drinking water to their customers. Connection of the Progressive Flats Water Association to the city of Okanogan will resolve these issues.

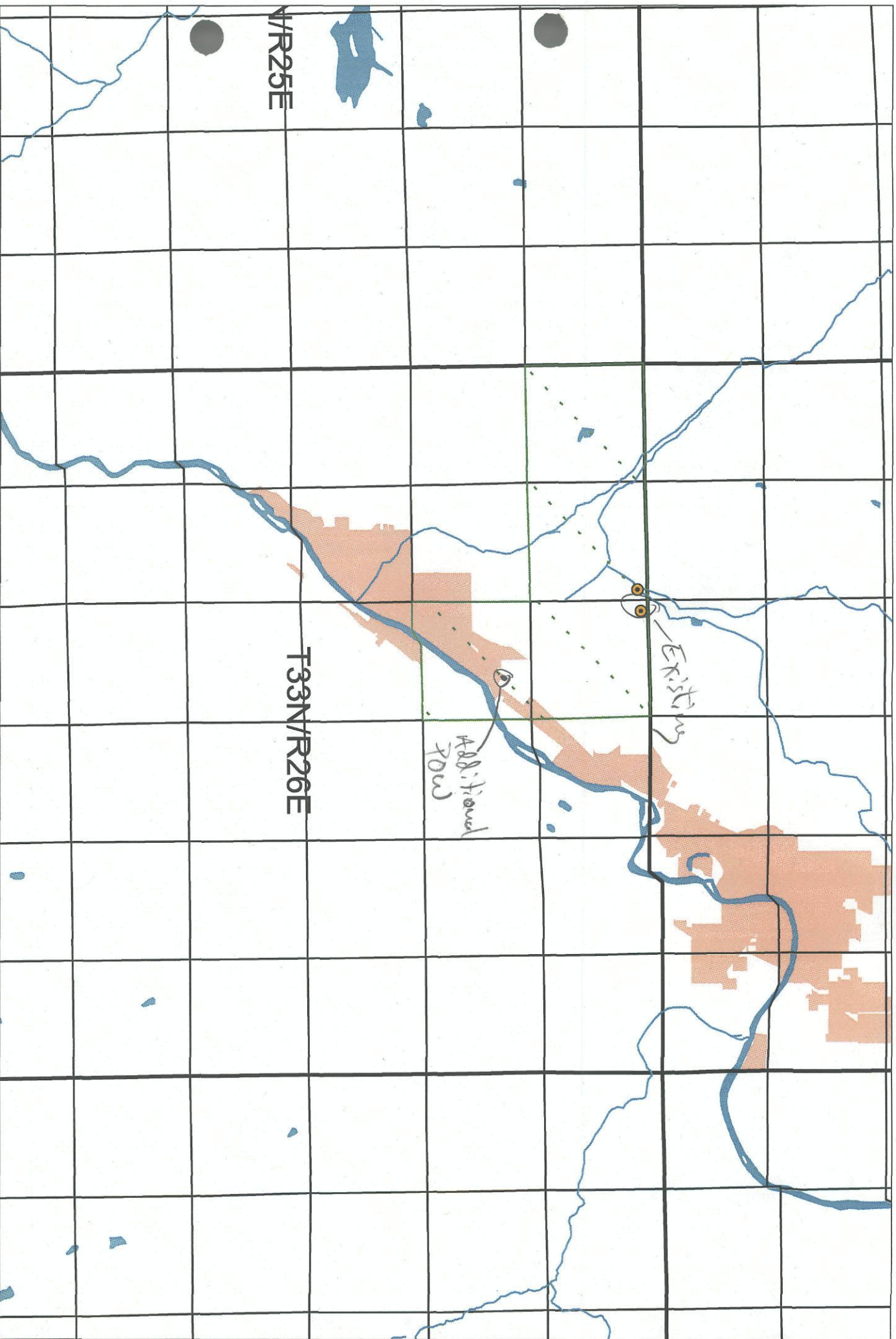
If you have any questions, please feel free to contact me at (509) 456-3183.

Sincerely,

Scott Torpie, PE  
Eastern Regional Manager  
Office of Drinking Water  
Division of Environmental Health

cc: John Sherlock, Progressive Flats Water Assoc.  
Joe Mitschelen, RCAC





Progressive Flatt

Oregon section 5327

2789 0 2789 5578 Feet

1:66941

Map printed 11/02/2005







STATE OF WASHINGTON

## DEPARTMENT OF HEALTH

1500 West 4th Avenue, Suite 305 • Spokane, Washington 99204

FAX (509) 456-2997

October 1, 2004

Wayne Dezelle  
Progressive Flat Water Association  
7 Cherry Lane Road  
Okanogan WA 98840

**SUBJECT: PROGRESSIVE FLAT WATER ASSN**  
Okanogan County, PWS ID# 69650

Dear Mr. Dezelle:

The Washington State Department of Health, Eastern Drinking Water Operations, received a complaint regarding the Progressive Flat Water Association on October 1, 2004, concerning the lack of water. The current schedule of water sharing leaves the same residents without water from 6:30 a.m. to 6:30 p.m. each day, which does not allow the customer to provide for the health care needs of the family. Since the irrigation is turned off, there is no water for flushing the toilets for 12 hours. This complaint has been logged into your water system's file with our office.

We are referring this information to you so you may investigate and respond to the customer's concerns through this office, as they wish to remain confidential. If you have any questions or concerns regarding this complaint, please call me at the number listed below.

Sincerely,

*Tom Justus*  
Tom Justus  
Eastern Drinking Water Operations  
(509) 456-2453

cc: Okanogan County Health District



11/1/05

Progreessive Flat Water Association well is a sixty five foot deep well with silt filled in to the forty three foot level. Low or critical water level is twenty eight feet.

Measuring well from the top went as following:

9/14/04 to 9/30/04.....23 feet to 34 feet / averaging 26 to 28 feet

October started to valve system down to keep water on.

10/1/04 to 10/14/04.....25 feet to 29.5 feet

10/15/04 @ 6pm 38 feet

10/16/04 system shut down

Repair water leak on Talbert Loop.

Start water 10/16/04 10 am.

10/17/04 7pm at pressure /26 feet

10/18/04 to 10/30/04.....25feet to 35 feet

11/01/04 to 11/10/04 .....28 feet to 42 feet

Went to a 6am to 9am /6pm to 9pm schedule.

11/11/04 to 11/30/04..... 24 feet to 36 feet

12/1/04 to 4/7/05 .....24 feet to 33feet

4/8/05 to 6/11/05.....21 feet to 24.5feet

6/12/05 to 10/30/05 .....18 feet to 22 feet

The water system is valved down. Most water pressures are at 30 psi. and lower.

Wayne A. Dyer  
Operator



( STATE OF WASHINGTON  
DEPARTMENT OF CONSERVATION  
AND DEVELOPMENT

Existing well

WELL LOG  
Date 2-2, 1961  
Record by Well driller  
Source driller's record  
Location: State of WASHINGTON  
County Okanogan  
Area  
Map  
NW 1/4 NW 1/4 sec 4 T 33 N, R 26 E  
Drilling Co. Ralph R. Charlton  
Address Rt. 1, Box 369, Okanogan, Wash.  
Method of Drilling dug Date March, 1960  
Owner Progressive Flat Water Assn.  
Address Okanogan, Washington  
Land surface, datum ft. above  
below

No. App 1/1 5792  
SEPT. 3838-A


Diagram of Section

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses, if material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Earth, clay and gravel		
	Hardpan		30 ft.
	Well was in existence when		
	acquired by this applicant. Outside		
	of existence of hardpan layer, exact		
	specifications of formation unknown.		
	PUMP TEST:		
	Dim. 30'x4'		
	SWL: 8'6"		
	DD: 7 1/2'		
	Yield: 50 g.p.m.		
	Type & size of pump: Turbine, 50 g.p.m.		
	Type & size of motor: 5 h.p. electric		
	CASING:		
	48" diam. concrete from ground to		
	30 1/2 ft.		

Turn up

Sheet 1 of 1 sheets

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.



STATE OF WASHINGTON  
DEPARTMENT OF CONSERVATION  
AND DEVELOPMENT Appl. #6878

## WELL LOG

Date September 27, 1963No.            /           Record by DrillerSource Driller's Record

Location: State of WASHINGTON

County OkanoganArea           Map           NW 1/4 NE 1/4 sec. 9 T. 33 N., R. 26 E. E. W.

Diagram of Section

Drilling Co. Charlton & SonAddress Route 1, Box 369, Okanogan, WashingtonMethod of Drilling Cable Date Sept. 3, 1963Owner City of OkanoganAddress Okanogan, WashingtonLand surface, datum            ft. above  
below

CON- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	<b>Municipal well</b>		
	Sand, gravel, boulders	0	12
	Hard pan	12	15
	Sand and 2" gravel	15	18
	Coarse sand & pea gravel	18	32
	Sand & 2" to 3" gravel	32	55
	Fine and coarse sand	55	58
	Coarse sand and gravel	58	70
	Sand & gravel w/yellow clay	70	75
	Water gravel	75	86
	Gravel and C. sand, clay	86	96
	Clean water gravel	96	117
	Casing: 12" from 0 to 117'		
	Perforated from 80 to 117'		

Turn up

Sheet        of        sheets~~New~~Additional well  
(City of Okanogan)33-26-9  
65-97-33

The Dep. The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.



**The Dep. The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.**

WELL LOG.—Continued

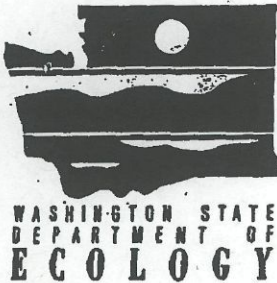
No.

A. 6878

[illegible]

S. F. No. 7448—OS—6-61—2M





# Well Tagging Form

Unique Well Tag No: A 6515863200503

## RECORD VERIFICATION (check one)

☐

Well Report available (please attach this form to the well report and submit it to the Ecology Regional Office near you)

☐

Verification inconclusive

☒

Well Report not available

Okanogan Water Dept., City

## WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT

First Name: 004214

Last Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

## LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT

Well Address: Northwell 3

City: \_\_\_\_\_

County: OkaT. 33 N. R. 26W.M. Sec. 09SW 1/4 of the NE

## FOR AGENCY USE ONLY

Latitude 48° 22 38 15348"Longitude 119° 34 07 65421"Elevation at land surface 881.29 feet meters (circle one)☒

GPS

☐

Topographic Map

☐

Survey

☐

Computer generated

☐

Digital Altimeter

☐

Topographic Map

☐

Other \_\_\_\_\_

Additional information, if available:

☐

Location marked on topographic map (please attach)

☐

Location marked on air photo (please attach)



**FOR AGENCY USE ONLY****WELL CHARACTERISTICS**

Physical Description of well (size of casing, type of well, housing, etc.)

Location of Well identification Tag:

on piping near casing.

Was supplemental tag needed for ease of identifying well?

☐

Yes

☒

No

If yes, where was tag placed?

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Scale 1:24,000 (1"=2,000')

Indicate the location of the well within the Section by drawing a dot at that point.

SECTION \_\_\_\_\_

COMMENTS:

**FOR ECOLOGY WATER RESOURCES PROGRAM ONLY**

Water Right # \_\_\_\_\_

Date Issued \_\_\_\_\_

Circle One:

Application

Permit

Certificate

Claim

Exempt



**Anderson, Sandra K. (ECY)**

---

**From:** Anderson, Sandra K. (ECY)  
**Sent:** Tuesday, November 01, 2005 2:25 PM  
**To:** Mortensen, Carol S.  
**Subject:** Progressive Flat Water Users Assn

App# 5702  
Permit# 5371  
Cert# 3838-A

The app referenced Permit No. 5371, but it is a certificate 3838-A. I will assign No. **CG4-GWC3838-A@1** to the app received 10-31-2005. There was a change app of 1991 (CG4-GWC3838-A), the Change ROE issued 03-18-1994 to add POW.

Sandy Anderson  
Water Resources Program - CRO Yakima  
(509)454-4172  
sand461@ecy.wa.gov



**Mortensen, Carol S.**

**From:** Justus, Tom (DOH)  
**Sent:** Tuesday, November 01, 2005 10:22 AM  
**To:** Mortensen, Carol S.  
**Subject:** Progressive Flats Water right Transfer Application (Okanogan County)

Carol:

One of the drought projects we are working on this year is to provide water from the city of Okanogan to the Progressive Flats water association. It is my understanding that the water right transfer application that is needed to make this funding possible was mailed to DOE on October 31st. It is also my understanding that Bob Barwin has indicated he will need a health and safety letter from DOH in order to process this change application in a timely way. We have the health and safety letter prepared but will need the Change Application number that will be assigned before sending it according to our MOU. We therefore would appreciate receiving this number as soon as it has been assigned. Time is getting critical with winter just around the corner for construction in the Okanogan. Thanks Carol.

Tom Justus P.E.  
Washington State Department of Health  
1500 West 4th Ave., Suite 305  
Spokane, Washington, 99204-1639  
Voice: (509)456-2453 - Fax: (509)456-2997  
Email: [tom.justus@doh.wa.gov](mailto:tom.justus@doh.wa.gov)

"Public Health: Always working for a safer and healthier Washington"

C64-6WC 3838-A @1